



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	LAREDO, TX	<b>Accident Number:</b>	FTW89LA041
<b>Date &amp; Time:</b>	01/18/1989, 2043 CST	<b>Registration:</b>	XBDYP
<b>Aircraft:</b>	DOUGLAS DC-3	<b>Aircraft Damage:</b>	Destroyed
<b>Defining Event:</b>		<b>Injuries:</b>	2 Serious
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Other Work Use		

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## Analysis

THE PILOT STATED THAT DURING TAKEOFF FROM RUNWAY 35L, THE CO-PILOT ON THE FLIGHT CONTROLS REDUCED LEFT PROPELLER AND RIGHT ENGINE POWER AT AN ALTITUDE OF LESS THAN 100 FEET AGL. HE ATTEMPTED TO RESTORE TAKEOFF POWER WHILE APPLYING FORWARD PRESSURE ON THE CONTROL YOKE, BUT LOST CONTROL OF THE AIRCRAFT AND IMPACTED THE TERRAIN ADJACENT TO THE DEPARTURE RUNWAY. HE FURTHER STATED THAT THE CARGO MAY HAVE SHIFTED TO THE REAR OF THE AIRCRAFT DURING TAKEOFF.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PIC'S DISREGARD FOR THE SECURITY OF THE CARGO THAT PERMITTED ITS SHIFT DURING THE TAKEOFF ROLL. THIS RESULTED IN AN AFT CG SITUATION AND A SUBSEQUENT STALL AND LOSS OF AIRCRAFT CONTROL. A CONTRIBUTING FACTOR IN THE ACCIDENT WAS THE MISMANAGEMENT OF THE ENGINE POWER BY THE CREW AND THE LACK OF EXPERIENCE OF THE CO-PILOT.

## Findings

Occurrence #1: CARGO SHIFT

Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (F) SECURITY OF CARGO - DISREGARDED - PILOT IN COMMAND
  2. (F) PROCEDURE INADEQUATE - PILOT IN COMMAND
  3. (C) AIRCRAFT WEIGHT AND BALANCE - EXCEEDED
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Occurrence #2: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

4. (F) THROTTLE/POWER CONTROL - REDUCED - COPILOT/SECOND PILOT
  5. (F) LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - COPILOT/SECOND PILOT
  6. (F) PROPELLER - REDUCED - COPILOT/SECOND PILOT
  7. (C) AIRSPEED(VS) - NOT MAINTAINED - PILOT IN COMMAND
  8. STALL/MUSH - INADVERTENT - PILOT IN COMMAND
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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Findings

9. TERRAIN CONDITION - GRASS

## Factual Information

### Pilot Information

<b>Certificate:</b>	Airline Transport; Commercial; Flight Engineer	<b>Age:</b>	40, Male
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane Single-engine	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	09/08/1987
<b>Occupational Pilot:</b>	<b>Last Flight Review or Equivalent:</b>		
<b>Flight Time:</b>	8000 hours (Total, all aircraft), 3800 hours (Total, this make and model), 7700 hours (Pilot In Command, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	DOUGLAS	<b>Registration:</b>	XBDYP
<b>Model/Series:</b>	DC-3 DC-3	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Transport	<b>Serial Number:</b>	
<b>Landing Gear Type:</b>	Retractable - Tailwheel	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	Unknown	<b>Certified Max Gross Wt.:</b>	26900 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	P&W
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	R1830-92
<b>Registered Owner:</b>		<b>Rated Power:</b>	1450 hp
<b>Operator:</b>	UNKNOWN	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	LRD, 508 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	2045 CST	Direction from Accident Site:	0°
Lowest Cloud Condition:	Unknown / 2000 ft agl	Visibility	7 Miles
Lowest Ceiling:	Overcast / 2000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	Calm /	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	16° C / 13° C
Precipitation and Obscuration:			
Departure Point:	LAREDO, TX (LRD)	Type of Flight Plan Filed:	VFR
Destination:	TORREON, MX (MMTC)	Type of Clearance:	VFR
Departure Time:	2044 CST	Type of Airspace:	Class D

## Airport Information

Airport:	LAREDO INT'L (LRD)	Runway Surface Type:	Concrete
Airport Elevation:	508 ft	Runway Surface Condition:	Dry
Runway Used:	35L	IFR Approach:	None
Runway Length/Width:	7810 ft / 150 ft	VFR Approach/Landing:	None

## Wreckage and Impact Information

Crew Injuries:	2 Serious	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Serious	Latitude, Longitude:	

## Administrative Information

Investigator In Charge (IIC):	JOHN E GRIFFIN	Report Date:	07/11/1990
Additional Participating Persons:	ROBERT ANDERSON GARY WORTHY		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at <a href="mailto:pubinquiry@ntsb.gov">pubinquiry@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.ntsb.gov/pubdms/">http://dms.ntsb.gov/pubdms/</a> .		

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The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).